In the Claims

1-13 (canceled).

14 (currently amended). An isolated polynucleotide selected from the group consisting of:

a) a polynucleotide encoding a polypeptide comprising an amino acid selected from the group consisting of:

i) the amino acid sequence of SEQ ID NO:2; and

ii) amino acid sequence that is at least ~~70~~95% identical to the amino acid sequence of SEQ ID NO:2~~; and~~ and binds to the polypeptide g34782 or binds to a calcium/calmodulin-dependent kinase II (CaM-KII);

b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:1, SEQ ID NO:3, or the complement thereof;

~~c) a polynucleotide which hybridizes under stringent conditions to a polynucleotide specified in (b);~~

~~d) a polynucleotide variant of the polynucleotide sequences specified in (a) to (c); and~~

c)~~e)~~ a polynucleotide fragment comprising nucleotide positions 1 to 140; 141 to 460, 460 to 690; or 87 to 346 of SEQ ID NO: 1 or nucleotide positions 1 to 3038; 1 to 421; 422 to 557; 2158 to 2218; or 2620 to 3039 of SEQ ID NO: 3~~of the sequences specified in (a) to (d) which is a contiguous span of at least 500 nucleotides~~; and

d) a polynucleotide which hybridizes under stringent conditions to a polynucleotide comprising nucleotide positions 1 to 140; 141 to 460, 460 to 690; or 87 to 346 of SEQ ID NO: 1, said stringent conditions comprising a hybridization step at 65° C in the presence of 6 x SSC buffer, 5 x Denhardt's solution, 0.5% SDS and 100ug/ml of salmon sperm DNA followed by four washing steps comprising two washings of 5 minutes at 65°C in a 2 x SSC and 0.1%SDS buffer; one washing of 30 min at 65°C in a 2 x SSC and 0.1% SDS buffer, and one washing of 10 minutes at 65°C in a 0.1 x SSC and 0.1%SDS buffer.

PAGE 4/17 * RCVD AT 8/31/2005 9:45:20 AM [Eastern Daylight Time] * SVR:USPTO-EFXRF-6/28 * DNIS:2738300 * CSID:3523725800 * DURATION (mm-ss):05-28

15 (previously presented). The polynucleotide of claim 14, further comprising a label.

16 (previously presented). The polynucleotide of claim 14, wherein said polynucleotide is bound to a solid support.

17 (previously presented). A recombinant vector comprising the polynucleotide of claim 14.

18 (previously presented). A host cell comprising the recombinant vector of claim 17.

19 (currently amended). A method for producing a polypeptide, said method comprising:

a) providing a host cell comprising the recombinant vector of claim 17; and

b) culturing said host cell under conditions conducive to the expression of said polypeptide.

20 (currently amended). The method of claim 19, further comprising recovering the polypeptide produced by said host cell.

21 (currently amended). The polynucleotide according to claim 14, wherein said polynucleotide has at least 95%, ~~99%, 99.5% or 99.8%~~ nucleotide identity with ~~a~~ the polynucleotide of SEQ ID NO:1 and said polynucleotide encodes a polypeptide that binds to the polypeptide g34782.

22 (currently amended). The polynucleotide according to claim 14, wherein said polynucleotide has at least ~~70%, 75%, 80%, 85%, 90%,~~ or 95% nucleotide identity with the nucleotide sequence of SEQ ID NO:3 and said polynucleotide encodes a polypeptide that binds to the ~~polypeptide g34782~~ CaM-KII.

PAGE 5/17 * RCVD AT 8/31/2005 9:45:20 AM [Eastern Daylight Time] * SVR:USPTO-EFXRF-6/28 * DNIS:2738300 * CSID:3523725800 * DURATION (mm-ss):05-28

23 (previously presented). The polynucleotide according to claim 14, wherein said polynucleotide encodes a polypeptide comprising the amino acid sequence of SEQ ID NO:2.

24-28 (Canceled)

29 (currently amended). The polynucleotide according to claim ~~24~~14, wherein said polynucleotide encodes a polypeptide comprising an amino acid sequence which is at least 95% identical to the amino acid sequence of SEQ ID NO:2.

30-31 (canceled).

32 (previously presented). The polynucleotide according to claim 14, wherein said polynucleotide comprises the nucleotide sequence of SEQ ID NO:1 or the complement thereof.

33 (previously presented). The polynucleotide according to claim 14, wherein said polynucleotide comprises the nucleotide sequence of SEQ ID NO:3 or the complement thereof.

34 (currently amended). The polynucleotide according to claim ~~21~~29, wherein said polynucleotide is naturally occurring.

35-45 (canceled).

46 (previously presented). The polynucleotide according to claim 14, wherein said polynucleotide has at least 95% nucleotide identity with the nucleotide sequence of SEQ ID NO:3.

PAGE 6/17 * RCVD AT 8/31/2005 9:45:20 AM [Eastern Daylight Time] * SVR:USPTO-EFXRF-6/28 * DNIS:2738300 * CSID:3523725800 * DURATION (mm-ss):05-28